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(Not for submission under 37 CFR 1.99)

Application Number	10579663
Filing Date	2004-11-12
First Named Inventor	Chaitan Khosla
Art Unit	1654
Examiner Name	
Attorney Docket Number	STAN-258US7

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	4	5817523		1998-10-06	Picarelli	
	5	5834428		1998-11-10	Drucker	
	6	6197356		2001-03-06	Girsh	
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	2	ARENTZ-HANSEN et al. "Celiac Lesion T Cells Recognizes Epitopes that Cluster in Regions of Gliadins Rich in Proline Residues" <i>Gastroenterology</i> , 2002, pp. 803-809, Vol. 123, No. 3.	<input type="checkbox"/>
	3	ARENTZ-HANSEN et al., "The Intestinal T Cell Response To a - Gliadin In Adult Celiac Disease Is Focused On A Single Deamidated Glutamine Targeted By Tissue Transglutaminase" <i>J. Exp. Med.</i> , 2000, pp. 603-12, Vol. 191.	<input type="checkbox"/>
	4	BORDUSA et al., "The Specificity Of Prolyl Endopeptidase From <i>Flavobacterium Meningoseptum</i> : Mapping The S' Subsites By Positional Scanning Via Acyl Transfer" <i>Bioorg. Med. Chem.</i> , 1998, pp. 1775-80, Vol 6.	<input type="checkbox"/>
	5	CASTELHANO et al., "Synthesis, Chemistry, and Absolute Configuration of Novel Transglutaminase Inhibitors Containing a 3-Halo-4,5-dihydroisoxazole" <i>Bioorg. Chem.</i> , 1988, pp. 335-340, Vol. 16.	<input type="checkbox"/>
	6	COLOT et al. "The Genes Encoding Wheat Storage Proteins: Towards A Molecular Understanding Of Bread-Making Quality And Its Genetic Manipulation" <i>Genet Eng</i> , 1990, pp. 225-41, Vol. 12.	<input type="checkbox"/>
	7	Database Derwent, Acc-No. 1996-329479, JP-08151396A, HLA-binding oligopeptide and an immuno: regulator contg. it-used in the treatment of auto: immune diseases, Abstract, Jun. 11, 1996.	<input type="checkbox"/>
	8	de RITIS G. et al. "In Vitro (organ culture) Studies of the Toxicity of Specific A-Gliadin Peptides in celiac Disease" <i>Gastroenterology</i> , 1988, pp 41-9, Vol. 94.	<input type="checkbox"/>

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9	FRAZER et al. "Gluten-induced enteropathy: the effect of partially digested gluten." Lancet, September 5, 1959, pp. 252-5, Vol. 2.	<input type="checkbox"/>
10	FREUND, K. et al. "Transglutaminase inhibition by 2-[(2-Oxopropyl)thio]imidazolium derivatives: mechanism of factor Xlla inactivation" Biochemistry, 1994, pp. 10109-10119, Vol. 33.	<input type="checkbox"/>
11	GREENBERG, C. et al. "Transglutaminases: multifunctional cross-linking enzymes that stabilize tissues" FASEB J., 1991, pp. 3071-3077, Vol. 5.	<input type="checkbox"/>
12	HAUSCH et al. "Design, synthesis, and evaluation of gluten peptide analogs as selective inhibitors of human tissue transglutaminase" Chem Biol., March 2003, pp. 225-31, Vol. 10, Issue 3.	<input type="checkbox"/>
13	HITOMI, K. et al. "GTP, an inhibitor of transglutaminases, is hydrolyzed by tissue-type transglutaminase (TGase 2) but not by epidermal-type transglutaminase (TGase 3)," Biosci. Biotechnol. Biochem., 2000, pp. 657-659, Vol. 64, Issue 3.	<input type="checkbox"/>
14	Kao Castle Pty LTD Sequence Analysis PCTRIS03104743.	<input type="checkbox"/>
15	KARPUJ et al. "Prolonged survival and decreased abnormal movements in transgenic model of Huntington disease, with administration of the transglutaminase inhibitor cystamine" Nature Med., February 2002, pp. 143-149, Vol. 8, Issue 2.	<input type="checkbox"/>
16	KIM et al. "Transglutaminases in disease" Neurochem. Int., 2002, pp. 85-103, Vol. 40.	<input type="checkbox"/>
17	LAHTEENOJA et al. "Local challenge on oral mucosa with an alpha-gliadin related synthetic peptide in patients with celiac disease" Am. J. Gastroenterol., 2000, pp. 2880, Vol. 95.	<input type="checkbox"/>
18	Lion. Flavobacterium meningosepticum. Genbank Accession #:EMBL #: D10980. August 1, 1992. http://www.infobiogen.fr/srs71bin/cgi-bin/wgetz?id+4jqa61Mc9PO+[uniprot-ID:PPCE_FLAME]+-e .	<input type="checkbox"/>
19	LORAND et al. "Novel inhibitors against the transglutaminase-catalysed crosslinking of lens proteins" Exp Eye Res., May 1998, pp. 531-6, Vol. 66.	<input type="checkbox"/>

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20	MARTINET et al. "In vivo transglutaminase type 1 expression in normal lung, preinvasive bronchial lesions, and lung cancer" Am J Respir Cell Mol Biol., April 2003, pp. 428-35, Vol. 28, Issue 4.	<input type="checkbox"/>
21	MESSER et al. "Studies On The Mechanism Of Destruction Of The Toxic Action Of Wheat Gluten In Coeliac Disease By Crude Papain" Gut., August 1964, pp. 295-303, Vol. 5.	<input type="checkbox"/>
22	MESSER et al. "Oral papain in gluten intolerance." Lancet, November 6, 1976, p. 1022, Vol. 2, Issue 7993.	<input type="checkbox"/>
23	MOODIE, P. "Traditional Baking Enzymes-Proteases" Presented at the American Institute of Baking, Manhattan, Kansas, May 7, 2001 by Peter Moodie, Director - Sales & Marketing, Enzyme Development Corporation, Enzyme Development Corporation.	<input type="checkbox"/>
24	Online-Medical Dictionary. "Amino acid". http://cancerweb.ncl.ac.uk/cgi-bin/omd?query=amino+acid . 13 Nov. 1997.	<input type="checkbox"/>
25	PIPER et al., "High selectivity of human tissue transglutaminase for immunoactive gliadin peptides: implications for celiac spure", Biochemistry, January 8, 2002, pp. 386-93, Vol. 41, Issue 1.	<input type="checkbox"/>
26	SÁRDY, M. et al. "Epidermal transglutaminase (TGase 3) is the autoantigen of dermatitis herpetiformis" J. Exp. Med., 2002, pp. 747-757, Vol. 195, Issue 6.	<input type="checkbox"/>
27	SCHUPPAN et al. "Special Reports and Reviews: Current Concepts Of Celiac Disease Pathogenesis" Gastroenterology, 2000, pp. 234-42, Vol. 119.	<input type="checkbox"/>
28	SHAN, L. et al. "Structural Basis for Gluten Intolerance in Celiac Sprue" Science 2002, pp 2275-9, Vol. 297.	<input type="checkbox"/>
29	SJOSTROM et al. "Identification of a Gliadin T-Cell Epitope in Coeliac Disease: General Importance of Gliadin Deamidation for Intestinal T-Cell Recognition" Scandinavian Journal of Immunology, August 1998 , pp. 111-115(5), Volume 48, Number 2.	<input type="checkbox"/>
30	VADER et al. "The Gluten Response in Children with Celiac Sprue Disease is Directed Toward Multiple Gliadin and Glutenin Peptides" Gastroenterology, 2002, pp 1729-1737, Vol. 122.	<input type="checkbox"/>

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31	VADER et al. "The HLA-DQ2 Gene Dose Effect in Celiac Disease is Doirectly Related to the Magnitude and Breadth of Gluten-Specific T Cell Responses" PNAS, October 14, 2003, pp. 12390-12395, Vol. 100, No. 3.	<input type="checkbox"/>
32	WIESER "The Precipitating Factor In Coeliac Disease" Baillieres Clinical Gastroenterol, 1995, pp. 191-207, Vol. 9, Issue 2.	<input type="checkbox"/>
33	WIESNER, "Relation Between Structure An Dcoeliac Toxicity" Acta Paediatr Suppl., 1996, pp. 3-9, Vol. 412.	<input type="checkbox"/>
34	YOSHIMOTO et al., "Prolyl Endopeptidase From Flavobacterium Meningosepticum: Cloning And Sequencing Of The Enzyme Gene" J. Biochem., 1991, pp. 873-8, Vol. 110.	<input type="checkbox"/>
35	ZHANG et al. "Identification of differentially expressed proteins in human glioblastoma cell lines and tumors" Glia., April 15 2003, pp. 194-208, Vol. 42, Issue 2.	<input type="checkbox"/>

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